

Introducing A
**Precision
TORCH**
for 1001



MINIATURE APPLICATIONS

Needle Point FLAME

Tescom
CORPORATION

The "Little Torch"

Features New Controllable

Needle Point Flame



FLAME
TEMPERATURE
ADJUSTABLE
up to 6300° f.

The Versatile, Accurate Performer

Welds

with incomparable precision. Use to fusion weld an unlimited range of materials from less than .001" copper to 16 gauge steel, to plastics, ceramics and glass. The perfect solution to modern micro-joining problems in every field.

Brazes

even the tiniest components with accuracy unsurpassed. Ideal for precision bonding of high temp. alloys. Facilitates modern metal fabrications even in microscopic dimensions. An advanced precision instrument for unexcelled precision heat joining.

Solders

with amazing versatility. Does hard or soft soldering. Offers just the right temperatures for perfect adhesion and capillary action. Maneuvers easily in the tightest places. The best idea in soldering since the beginnings of miniaturization.

Heats

any material to extraordinary temperatures, offering an unlimited array of flame settings and sizes. Provides critical control for thread thin flames with up to 6300° F. temperatures. The big answer to any tiny heating need.

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Instrument
DIVISION

The Versatile Torch With 1001 Applications



Silver soldering the brush shunts of an electric motor



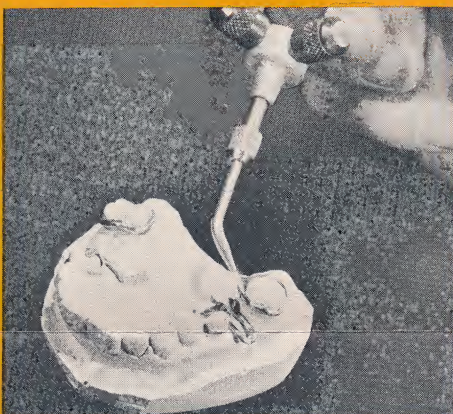
Repairing copper terminal straps on a jet engine rotor



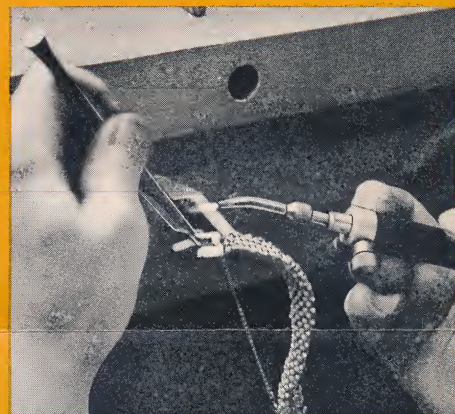
Repairing the broken base plate on a fishing reel



Silver soldering a special sight ramp to a rifle barrel

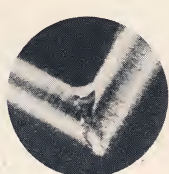


Welding the stainless alloy clasp of a partial denture

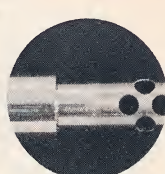
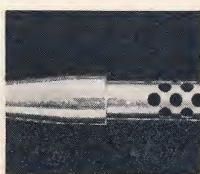


Soldering a broken die cast clasp on a gold bracelet

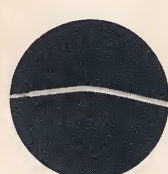
FUSION WELD—Platinum



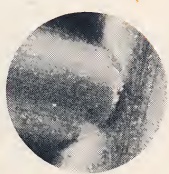
SILVER BRAZE—Stainless to Beryllium



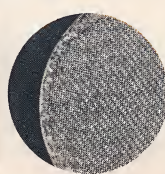
SILVER BRAZE—Copper to Platinum



SOLDER—Platinum (Gold Filler)



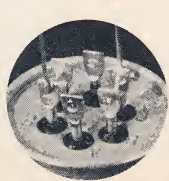
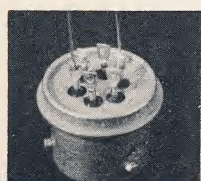
GOLD BRAZE—Stainless Mesh



FUSION—Copper to Copper



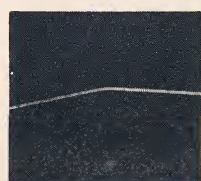
SILVER BRAZE—Gold Plated Stainless



FUSION—1 mil to 21 mil Platinum

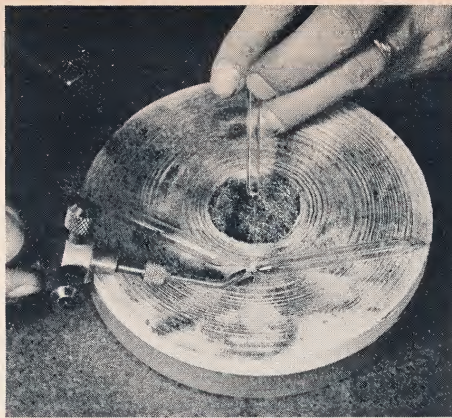


FUSION—Gold to Platinum

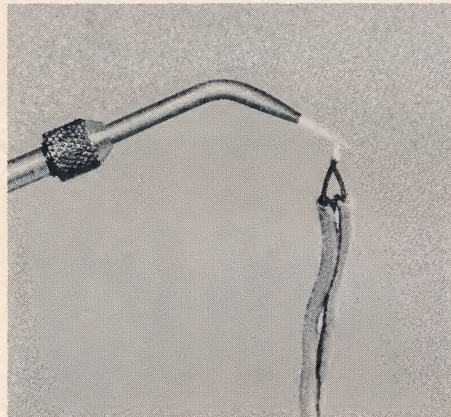




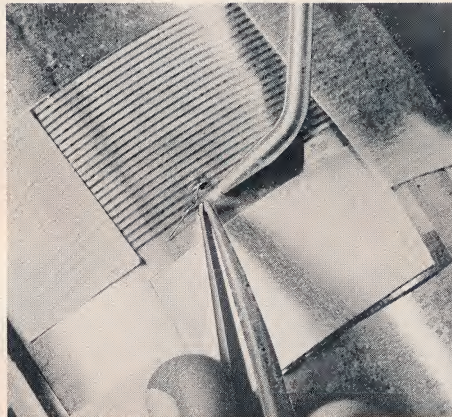
Giving the final touches to a piece of silver sculpture



Fusing glass tubing with tiny glass tube as welding rod



Joining the high temperature junction of a thermocouple



Soldering copper leads to 1/2 mil copper on a printed circuit

Ideal for Laboratories, Research and Development, Electronic Production and Repair, Dental Labs, Jewelry Making and Miniature Machinery

The Little Torch is a precision engineered, highly versatile instrument capable of doing seemingly impossible tasks with ease. It can use four different kinds of fuels—acetylene, hydrogen, LP or natural gas—and provides different flame characteristics with each. It produces a perfectly controlled, completely stable flame with temperatures up to 6300° F., that's hot enough to melt commercially weldable metals, glass, or even ceramics.

No wonder the Little Torch is being used to do an infinite variety of jobs from experimental laboratory work to aircraft maintenance; and, without fail users are being surprised by the Little Torch's capacity for doing impossible jobs with facility.

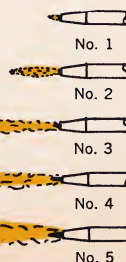
IDEAL FOR ANY MINIATURE FABRICATION OR MAINTENANCE JOB

Applications for the Little Torch are limited only by the user's imagination. For small, even microscopic work, in hard to reach places, and small spaces . . . the Little Torch provides versatility, maneuverability and a needle point flame for precision welding, brazing, soldering or heating. And the Little Torch is safe to use. It is backed by Tescom Corporation's reputation for superior products, dependability, and the experience gained through 45 years of producing this type of equipment.

TIP DATA AND FLAME CHARACTERISTIC CHART

TIP SIZE	ORIFICE SIZE	Gas Pressures (P.S.I.)		CONSUMPTION C.F.H. Ea. Gas
		Oxygen	Fuel Gas	
1	.003	2	2	.023
2	.006	3	3	.087
3	.011	3	3	.215
4	.020	3	3	1.625
5	.029	4	4	2.540

Flame drawings are symbolic representations of neutral settings for each tip. Obviously each tip has a variety of settings for particular needs.



So tiny it can weld a .002" copper or steel wire inside a recessed cigaret filter without scorching the paper—proof of the Little Torch's precision flame control.



23-1003 TORCH SET

Complete Set Includes:

- Aluminum alloy Torch Body
- 5 copper tips
- 6 feet of plastic hose
- 1 oxygen Instrument Regulator. Fits any commercial oxygen cylinder.
- 1 Fuel gas Instrument Regulator. Fits "MC" Acetylene cylinder.

NOTE: If the torch is to be used on larger cylinders, order the kit #23-1001, oxygen regulator H743, and fuel gas regulator H745. Specify the kind of fuel gas to be used and type of cylinder fittings (CGA). Line regulators for piped installation are available.

Needle Point
FLAME

MINIATURE APPLICATIONS



Introducing A Precision TORCH for 1001



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The "Little Torch" Handy Kit #23-1001

Includes aluminum alloy torch body, 5 copper tips, 6 feet of durable plastic hose, and complete instructions. Packaged in attractive plastic case. Every item—valves, connections and hose—is color-keyed for convenience and safety.

Complete Outfit with Cylinders

A full independent unit. Consists of Little Torch Kit (as above); two regulators, one for oxygen, one for fuel gas; oxygen and acetylene cylinders; and carrying caddy. Each cylinder will hold approximately 10 cu. ft. of gas, (provide up to 435 hours of operation). Net weight: 30 lbs.

- 23-1004 Outfit for oxygen & acetylene.
- 23-1004-H Outfit for hydrogen & oxygen.

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